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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/070,712	03/05/2002	Yoshio Tsukahara	OT-4607	2569
7590 07/12/2004			EXAMINER	
Randy G Henley			CRAWFORD, GENE O	
Otis Elevator Co Intellectual Prop	ompany perty Department	ART UNIT	PAPER NUMBER	
Ten Farm Springs			3651	
Farmington, C	Γ 06032		DATE MAILED: 07/12/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applica	ation No.	Applicant(s)				
	0.00	10/070	10/070,712 TSUKAHARA ET AL.					
Office Action Summary		Examir	ner	Art Unit				
		Gene C). Crawford	3651				
Period f	The MAILING DATE of this comm	unication appears on	the cover sheet w	ith the correspondence addre	ess			
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Status				,				
1)⊠	Responsive to communication(s)	filed on <u>26 <i>May</i> 2004</u>						
2a)⊠	This action is FINAL .	2b)☐ This action is	s non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	tion of Claims							
5)⊠ 6)⊠	Claim(s) <u>1-6</u> is/are pending in the 4a) Of the above claim(s) is Claim(s) <u>1</u> is/are allowed. Claim(s) <u>2-4</u> is/are rejected. Claim(s) <u>5 and 6</u> is/are objected to Claim(s) are subject to res	s/are withdrawn from						
Applica	tion Papers							
9)[The specification is objected to by	the Examiner.						
10)	The drawing(s) filed on is/a	ire: a)∏ accepted or	b) objected to	by the Examiner.				
	Applicant may not request that any o	,	•					
11)	Replacement drawing sheet(s) include The oath or declaration is objected	-						
Priority	under 35 U.S.C. § 119							
a	Acknowledgment is made of a cla All b) Some * c) None of Certified copies of the prior Certified copies of the prior Copies of the certified copie application from the Internation	f: ity documents have b ity documents have b es of the priority docu ational Bureau (PCT F	peen received. been received in a aments have been Rule 17.2(a)).	Application No n received in this National St	age			
Attachme	• •		A) 🗀 Interview	Summany (PTO 413)				
	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Revie	w (PTO-948)	Paper No	Summary (PTO-413) (s)/Mail Date				
3) 🔲 Info	rmation Disclosure Statement(s) (PTO-144: er No(s)/Mail Date		5) Notice of 6) Other: _	Informal Patent Application (PTO-19 	52)			

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DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer in view of Ahls et al.

The escalator step disclosed by Fischer includes a tread 2 and a riser 1 extending downward from a rear edge of the step, the step including a surface 3, 40 of a fixed length and prescribed width mounted to the rear edge of the step, and the surface 3, 40 is comprised of a synthetic resin (i.e. rigid, slightly resilient plastic) formed with cleats conforming to the step tread (column 5, lines 53-55). Fischer does not disclose that the surface is a non-slip or made of a material that is non-slip such as rubber, which is notoriously well known for its high coefficient of friction properties. However, Ahls et al. discloses the broad teaching of providing a non-slip surface made of rubber to the edges of a step including the rear edge. It would have been obvious to one of ordinary skill in the art to provide the synthetic resin surface of the step disclosed by Fischer be

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made of rubber such requiring the mere choice of an art recognized material used for making surfaces that can be attached to the rear edge of an escalator step as taught by Ahls et al.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer in view of Ahls et al. as applied to claims 2 and 3 above, and further in view of Saito et al.

With regard to claim 4, Fischer includes all the claimed features but does not disclose a serrated irregular pad formed on the top surface of the cleats of the non-slip surface. However, Saito et al. discloses the broad teaching of providing cleats for the surfaces of an escalator step with serrated surfaces in the longitudinal or transverse direction of the cleat top surface (figures 2, 3, 7A, 8, 9). It would have been obvious to one of ordinary skill in the art to provide the top surfaces of the cleats of the anti-slip surface of Fischer in view of Ahls et al. include serrated surfaces to facilitate an anti-slip surface and provide strengthening and wear resistance to the top portion of the cleats as taught by Saito et al.

Allowable Subject Matter

- Claim 1 is allowed.
- 6. Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: an escalator step including the unique features of 'cleats of the non-slip surface

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being formed to be at a height higher than the tread' and/or 'the non-slip surface being fastened to a reinforcing plate that is fixed within a cleat cutout part of the step' in combination with the rest of the claim language is not taught or fairly suggested by the prior art.

8. The following is an examiner's statement of reasons for allowance: an escalator step having a riser including the unique features of 'the riser having a toothed surface made of cleats with one or more grooves formed in longitudinal direction on the surface of each of the cleats' in combination with the rest of the claim language is not taught or fairly suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gene O. Crawford whose telephone number is 703/305-9733. The examiner can normally be reached on Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Ellis can be reached on 703/308-1113. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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